

AMENDMENTS TO SPECIFICATION

Delete the paragraph appearing on page 1, lines 20 to 23, of the filed application.

Amend the paragraph appearing on page 6, lines 22 to 30, of the filed application as follows. Applicants note the original application contains some underlined text to denote vector values. That underlining is repeated here to remain faithful to the original, and not to denote changes to the text as filed. Thus, the only change the current amendment enters is to replace “d” with “ δ ” in the first line of the paragraph:

The correction function $[[d]]\underline{\delta}(\underline{x},\Phi)$ can, for example, be determined empirically, if the apparent trajectory $\underline{r}(\Phi)$ of the reference sensor 3 shown in Fig. 2 is plotted simultaneously with the measured values of a probe field sensor, which is successively placed at known grid positions in the volume of interest VOI. As a probe field sensor can be used, for example, the field sensor 4, where it could preferably simultaneously measure the magnetic field in three spatial directions. The position of the grid positions is to be selected sufficiently close in view of the magnetic field distortions taken as the basis. By interpolation or extrapolation respectively of the values on the grid positions (support points), the correction function $\delta(\underline{x},\Phi)$ searched for can then be determined in the whole volume VOI.